EG&G ER Program
Rocky Flats Plant

(1/12/90)

ER PROGRAM DATA ASSESSMENT SUMMARY REPORT FORM

Batch No. 8911L395 **Site** Background Characterization
Laboratory R.F. Weston-Lionville **No. of Samples/Matrix** 6/Water
SOW # 10/86 (Rev. 2/88) **Reviewer Org.** TechLaw, Inc.
Sample Numbers TB110289008, SW098008, SW092008, SW094008, SW093008, SW095008

Data Assessment Summary

		VOA	Comments
1.	**Holding Times**	A	Action Item 1
2.	**GC/MS Tune/Instr. Perf.**	V	
3.	**Calibrations**	A	Action Item 2,3; Comments 1,2
4.	**Blanks**	V	
5.	**Surrogates**	V	
6.	**Matrix Spike/Dup.**	X	Comment 3
7.	**Other QC**	V	
8.	**Internal Standards**	V	
9.	**Compound Identification**	V	
10.	**System Performance**	X	Comment 4
11.	**Overall Assessment**	A	Data acceptable with qualifications.

V = Data had no problems.
A = Data acceptable but qualified due to problems.
R = Data rejected.
X = Problems, but do not affect data.

Data Quality: Data contained in this batch were reviewed and found to be acceptable with qualifications. Acceptable, qualified data may be used provided that individual values impacted by the "Action Items" listed below are appropriately flagged. (Refer to attached Results Summary Tables.)

L395/rk25

Action Items: 1) Non-detected aromatic compounds in all six samples are estimated and undetected (UJ) because holding times were exceeded.

2) In the initial calibration Vinyl Acetate, Carbon Disulfide, Methylene Chloride and Chloroethane had %RSDs exceeding 50%. All non-detects for these 4 compounds in all six samples are rejected (R).

3) All non-detected results for Acetone in all samples are rejected(R) because Acetone's %D in the continuing calibration exceeded 50%. (Carbon Disulfide, Methylene Chloride and Chloroethane also had %Ds exceeding 50% in the continuing calibration.)

Comments: 1) In the continuing calibration 4-Methyl-2-pentanone and Tetrachloroethene had %Ds exceeding 25%. No action is required because there were no positive results for these compounds.

2) In the continuing calibration the %Ds for Chloroethane, Methylene Chloride, Acetone, and Carbon Disulfide exceeded 50 %. No action is necessary because results are already qualified due to initial calibration problems.

3) No data is provided for the Matrix spike and Matrix spike duplicate nor is there any indication that they were analyzed.

4) There is a large peak present in all chromatograms (including calibrations) which the lab has indicated as a lab contaminant. This peak may have caused interference with compounds which have similar elution times.

Note: Data Summary Tables are attached.

Jill Haschke
Reviewer Signature

1-12-90
Date

TABLE #: 8911L395

SITE NAME: Background Characterization

CLP VOLATILE ORGANIC ANALYSIS: Low Water

ANALYTICAL RESULTS (ppb)

Sample Location											
Sample Number		VBLK	TB110289008	SW098008	SW092008	SW094008	SW093008	SW095008			
Sampling Date			11/2/89	11/2/89	11/2/89	11/2/89	11/2/89	11/2/89			
Remarks											
Volatile Compound	CRQL ug/L (ppb)	DQ	DQ	DQ	DQ	DQ	DQ	DQ			
Chloromethane	10		10 U V	10 U V	10 U V	10 U V	10 U V	10 U V			
Bromomethane	10		10 U V	10 U V	10 U V	10 U V	10 U V	10 U V			
Vinyl chloride	10		10 U V	10 U V	10 U V	10 U V	10 U V	10 U V			
Chloroethane	10		10 U R	10 U R	10 U R	10 U R	10 U R	10 U R			
Methylene chloride	5		5 U R	5 U R	5 U R	5 U R	5 U R	5 U R			
Acetone	10		10 U R	10 U R	10 U R	10 U R	10 U R	10 U R			
Carbon disulfide	5		5 U R	5 U R	5 U R	5 U R	5 U R	5 U R			
1,1-Dichloroethene	5		5 U V	5 U V	5 U V	5 U V	5 U V	5 U V			
1,1-Dichloroethane	5		5 U V	5 U V	5 U V	5 U V	5 U V	5 U V			
1,2-Dichloroethene (Total)	5		5 U V	5 U V	5 U V	5 U V	5 U V	5 U V			
Chloroform	5		5 U V	5 U V	5 U V	5 U V	5 U V	5 U V			
1,2-Dichloroethane	5		5 U V	5 U V	5 U V	5 U V	5 U V	5 U V			
2-Butanone	10		10 U V	10 U V	10 U V	10 U V	10 U V	10 U V			
1,1,1-Trichloroethane	5		5 U V	5 U V	5 U V	5 U V	5 U V	5 U V			
Carbon tetrachloride	5		5 U V	5 U V	5 U V	5 U V	5 U V	5 U V			
Vinyl acetate	10		10 U R	10 U R	10 U R	10 U R	10 U R	10 U R			
Bromodichloromethane	5		5 U V	5 U V	5 U V	5 U V	5 U V	5 U V			
1,2-Dichloropropane	5		5 U V	5 U V	5 U V	5 U V	5 U V	5 U V			
cis-1,3-Dichloropropene	5		5 U V	5 U V	5 U V	5 U V	5 U V	5 U V			
Trichloroethene	5		5 U V	5 U V	5 U V	5 U V	5 U V	5 U V			
Dibromochloromethane	5		5 U V	5 U V	5 U V	5 U V	5 U V	5 U V			
1,1,2-Trichloroethane	5		5 U V	5 U V	5 U V	5 U V	5 U V	5 U V			
Benzene	5		5 UJ A	5 UJ A	5 UJ A	5 UJ A	5 UJ A	5 UJ A			
trans-1,3-Dichloropropene	5		5 U V	5 U V	5 U V	5 U V	5 U V	5 U V			
Bromoform	5		5 U V	5 U V	5 U V	5 U V	5 U V	5 U V			
4-Methyl-2-pentanone	10		10 U V	10 U V	10 U V	10 U V	10 U V	10 U V			
2-Hexanone	10		10 U V	10 U V	10 U V	10 U V	10 U V	10 U V			
Tetrachloroethene	5		5 U V	5 U V	5 U V	5 U V	5 U V	5 U V			
1,1,2,2-Tetrachloroethane	5		5 U V	5 U V	5 U V	5 U V	5 U V	5 U V			
Toluene	5		5 UJ A	5 UJ A	5 UJ A	5 UJ A	5 UJ A	5 UJ A			
Chlorobenzene	5		5 UJ A	5 UJ A	5 UJ A	5 UJ A	5 UJ A	5 UJ A			
Ethylbenzene	5		5 UJ A	5 UJ A	5 UJ A	5 UJ A	5 UJ A	5 UJ A			
Styrene	5		5 UJ A	5 UJ A	5 UJ A	5 UJ A	5 UJ A	5 UJ A			
Xylenes (Total)	5		5 UJ A	5 UJ A	5 UJ A	5 UJ A	5 UJ A	5 UJ A			
Total Organic Concentration (ppb)		0	0	0	0	0	0	0			

U Indicates the compound was not deteched above the Required Quantitation Limit.

J Quantitation is approximate due to limitations identified during the quality control review.

E Exeeds calibration range, dilute & reanalyze.

CRQL Contract Required Quantitation Limit in Micrograms per Liter (ug/L), Parts per billion (ppb).

DQ Data Qualifier

V Valid

A Acceptable with qualifications

R Rejected

L395L/rk25

~~Stockton~~ Lionville

Lok 110289001

WESTON Analytics Use Only

8911L395

Custody Transfer Record/Lab Work Request

WESTON

Client: Rockwell (rocky Flats)
Work Order: 2029 33 04
Date Rec'd.: 11/6/89 Date Due: 12/18/89
RFW Contact: JA Janell Bergman
Client Contact/Phone: (303) 980 6800

Refrigerator#				1	4	4	4	cf	
#/Type Container				2/glass	1/plast	1/plast	1/plas		
Volume				40 ml	1-L	1-L	1-L		
Preservative				None	NaOH	HNO3	HNO3		
ANALYSES REQUESTED →				1	4	5	6		
WA Use Only Lab ID	Client ID/Description	Matrix	Date Collected	[illegible]	[illegible]	[illegible]	[illegible]		
1	TB110289008	W	11-02-89	X					
2	SW098008	W		X	X	X	X		
3	SW092008	W		X	X	X	X		
4	SW094008	W		X	X	X	X		
5	SW093008	W		X	X	X	X		
6	SW095008	W		X	X	X	X		
7	SW098008	W				✓			
8	SW092008	W				✓			
9	SW094008	W				✓			
10	SW093008	W				✓			
11	SW095008	W				✓			

Full CLP 45DAYTAT

Matrix:
S - Soil, SE - Sediment, SO - Solid
W - Water, O - Oil, A - Air, WI - Wipe
DS - Drum Solids, DL - Drum Liquids, F - Fish, L - EP/TCLP Leachate
X - Other

Special Instructions: 1 = vos 2 = bna 3 = pest/pcb 4 = cyanide
5 = filtered tcl metals Mo, Sr, Cs, Li, Sn
6 = unfiltered tcl metals Mo, Sr, Cs, Li, Sn

Item/Reason	Relinquished by	Received by	Date	Time	Item/Reason	Relinquished by	Received by	Date	Time
	[illegible]	[illegible]	11-3-89	1330	[illegible]	J. Jeffrey Welsh		11/27/89	1545
All	[illegible]	[illegible]	11-3-89	1700	Metals	[illegible]	[illegible]	12-1	9
n	[illegible]	[illegible]	11/4/89	[illegible]	Metals	[illegible]		12-1	4
[illegible]		[illegible]	[illegible]	[illegible]					
[illegible]	[illegible]		[illegible]						
[illegible]		J. Jeffrey Welsh	11/27/89	0915					

WESTON Analytics Use Only

Samples Were:
1 Shipped or Hand-Delivered (Shipped circled)
NOTES:

2 Ambient or Chilled (Chilled circled)
NOTES:

3 Received Broken/Leaking (Improperly Sealed) Y N (N circled)
NOTES:

4 Properly Preserved Y N (Y circled)
NOTES:

5 Received Within Holding Times Y N (Y circled)
NOTES:

COC Tape Was:
1 Present on Outer Package Y N (Y circled)
2 Unbroken on Outer Package Y N (Y circled)
3 Present on Sample Y N (Y circled)
4 Unbroken on Sample Y N (Y circled)
NOTES: 11/6/89 cf

COC Record Was:
1 Present Upon Receipt of Samples Y N (Y circled)

Discrepancies Between Sample Labels and COC Record? Y N (N circled)
NOTES:

RFW 21-21-001/A-12/88

SW094008 less than 300 pCi/L
SW095008 " " 200 pCi/L
all others less than 50 pCi/L

7-115

EG&G ER Department
Rocky Flats Plant

(07/02/90)

ER DEPARTMENT DATA ASSESSMENT SUMMARY REPORT FORM

Batch No. 8911L395 **Site** Surface Water

Laboratory Roy F. Weston - Lionville **No. of Samples/Matrix** 10/Water

SOW # 7/87 **Reviewer Org.** TechLaw, Inc.

Sample Numbers SW098008 (total and soluble), SW092008 (total and soluble), SW094008 (total and soluble), SW093008 (total and soluble), SW095008 (total and soluble)

Data Assessment Summary

		ICP	AA	Hg	CN	Comments
1.	**Holding Times**	V	V	V	V	
2.	**Calibrations**	A	V	V	V	Action Item 1
3.	**Blanks**	A	V	V	V	Action Items 2-7
4.	**ICP Interference Check Sample**	A	N/A	N/A	N/A	Action Items 8-9
5.	**Lab Control Sample Results**	A	V	V	V	Action Item 10
6.	**Duplicate Sample Results**	V	V	V	V	
7.	**Matrix Spike Sample Results**	A	A	V	V	Action Items 11-16
8.	**Method of Standard Addition**	N/A	V	N/A	N/A	
9.	**Serial Dilution**	A	N/A	N/A	N/A	Action Item 17
10.	**Sample Verification**	X	X	V	V	Comments 1-2
11.	**Other QC**	V	V	V	V	
12.	**Overall Assessment**	A	A	V	V	Data valid, or acceptable with qualifications

V = Data had no problems.
A = Data acceptable but qualified due to problems.
R = Data rejected.
X = Problems, but do not affect data.
N/A = Not applicable.

Data Quality: Data contained in this batch were reviewed and found to be valid, or acceptable with qualifications. Acceptable, qualified data may be used provided that individual values impacted by the "Action Items" listed below are appropriately flagged. (Refer to attached Results Summary Tables).

Action Items: 1) The Zinc values for SW098008 (total and soluble), SW092008 (total and soluble), and SW093008 (total) are estimated (J) because the CRDL check sample recovery criteria were not met.

2) All Aluminum values except SW094008 (total) and SW093008 (soluble) are estimated and undetected (UJ) because Aluminum values >IDL were found in the blanks.

3) All Antimony non-detects are rejected (R) because of negative bias indicated in the blanks.

4) The Antimony values for SW092008 (soluble), SW094008 (total and soluble), and SW095008 (soluble) are estimated and undetected (UJ) because Antimony values >IDL were found in the blanks.

5) The Chromium values for SW098008 (soluble), SW092008 (total), and SW093008 (total and soluble) are estimated and undetected (UJ) because Chromium values >IDL were found in the blanks.

6) The Potassium values for SW098008 (total and soluble), SW092008 (total and soluble), and SW093008 (total and soluble) are estimated and undetected (UJ) because Potassium values >IDL were found in the blanks.

7) All Copper values are estimated and undetected (UJ) because Copper values >IDL were found in the blanks.

8) The Manganese, Zinc, and Beryllium values for SW094008 (total and soluble) and SW095008 (total and soluble) are estimated (J) because of possible Calcium interference indicated in the interference check sample.

9) The Silver values for SW094008 (total and soluble) and SW095008 (total and soluble) are rejected (R) because of possible Calcium interference indicated in the interference check sample.

10) All Strontium values are estimated (J) because the laboratory control sample recovery criteria were not met.

11) All Cesium and Thallium values are rejected (R) because the pre-digestion matrix spike recovery criteria were not met.

12) All Lead values are estimated and undetected (UJ) because the pre-digestion matrix spike recovery criteria were not met.

13) The Tin values for SW094008 (total and soluble) and SW095008 (total and soluble) are estimated (J) because the pre-digestion matrix spike recovery criteria were not met.

Action Items: (cont) 14) The Lithium values for SW094008 (total and soluble), SW095008 (total and soluble), and SW098008 (soluble) are estimated (J) and all remaining Lithium values are rejected (R) because the pre-digestion matrix spike recovery criteria were not met.

15) All Silver values except SW094008 (total and soluble) and SW095008 (total and soluble) are estimated and undetected (UJ) because the pre-digestion matrix spike recovery criteria were not met.

16) The Selenium values for SW098008 (total), SW092008 (total), SW094008 (total and soluble), and SW095008 (soluble) are estimated (J) because the pre-digestion matrix spike recovery criteria were not met.

17) All Calcium values are estimated (J) because the ICP serial dilution recovery criteria were not met.

Comments: 1) The IDL for Cesium exceeds the CRDL.

2) The soluble Sodium value for SW094008 is significantly greater than the total value.

Note: Data Summary Tables are attached.

Robert J. Illick
Reviewer Signature

7/6/90
Date

TABLE #: 8911L395 Page 1 of 1

SITE NAME: Surface Water

CLP WATER INORGANIC ANALYSIS: Low Water ANALYTICAL RESULTS (ug/L)

Sample Location																							
Sample Number			SW098008		SW098008		SW092008		SW092008		SW094008		SW094008		SW093008		SW093008		SW095008		SW095008			
Sample Date			11/02/89		11/02/89		11/02/89		11/02/89		11/02/89		11/02/89		11/02/89		11/02/89		11/02/89		11/02/89			
Remarks			Total		Soluble		Total		Soluble		Total		Soluble		Total		Soluble		Total		Soluble			
Inorganic Analyte		DL ug/L		DQ		DQ		DQ		DQ		DQ		DQ		DQ		DQ		DQ		DQ		
Aluminum	Al	200	122 W	A	117 W	A	232 W	A	145 W	A	435	V	318 W	A	104 W	A	2360	V	410 W	A	309 W	A		
Antimony	Sb	60	22.0 U	R	22.0 U	R	22.0 U	R	31.3 W	A	42.7 W	A	34.1 W	A	22.0 U	R	22.0 U	R	22.0 U	R	39.8 W	A		
Arsenic	As	10	2.0 U	V	2.0 U	V	2.0 W	A	2.0 U	V	2.0 U	V	2.0 U	V	2.0 U	V	2.0 U	V	2.0 U	V	2.0 U	V		
Barium	Ba	200	183	V	179	V	114	V	109	V	175	V	190	V	80.3	V	99.1	V	187	V	188	V		
Beryllium	Be	5	1.0 U	V	1.0 U	V	1.0 U	V	1.0 U	V	2.0 J	A	1.3 J	A	1.0 U	V	1.0 U	V	1.1 J	A	1.5 J	A		
Cadmium	Cd	5	3.0 U	V	3.0 U	V	3.0 U	V	3.0 U	V	3.0 U	V	3.0 U	V	3.0 U	V	3.0 U	V	3.0 U	V	3.0 U	V		
Calcium	Ca	5000	41900 J	A	43100 J	A	86400 J	A	83800 J	A	335000 J	A	348000 J	A	52400 J	A	50900 J	A	334000 J	A	337000 J	A		
Cesium	Cs	1000	2500 U	R	2500 U	R	2500 U	R	2500 U	R	2500 U	R	2500 U	R	2500 U	R	2500 U	R	2500 U	R	2500 U	R		
Chromium	Cr	10	2.0 U	V	3.3 W	A	2.0 W	A	2.0 U	V	2.0 U	V	2.0 U	V	2.3 W	A	7.6 W	A	2.0 U	V	2.0 U	V		
Cobalt	Co	50	4.0 U	V	4.0 U	V	4.0 U	V	4.0 U	V	4.0 U	V	4.0 U	V	4.0 U	V	4.0 U	V	4.0 U	V	4.0 U	V		
Copper	Cu	25	8.9 W	A	10.9 W	A	14.2 W	A	13.0 W	A	28.0 W	A	28.3 W	A	10.9 W	A	18.2 W	A	25.7 W	A	25.9 W	A		
Iron	Fe	100	289	V	44.0 U	V	224	V	46.9	V	220	V	99.4	V	51.3	V	3510	V	215	V	98.5	V		
Lead	Pb	5	3.0 W	A	3.0 W	A	3.0 W	A	3.0 W	A	3.0 W	A	3.0 W	A	3.0 W	A	3.0 W	A	3.0 W	A	3.0 W	A		
Lithium	Li	100	100 U	R	102 J	A	100 U	R	100 U	R	513 J	A	577 J	A	100 U	R	100 U	R	570 J	A	589 J	A		
Magnesium	Mg	5000	41000	V	42400	V	20000	V	19800	V	92300	V	98400	V	11200	V	10800	V	95200	V	96000	V		
Manganese	Mn	15	67.5	V	61.4	V	143	V	135	V	28.9 J	A	27.0 J	A	204	V	287	V	30.7 J	A	25.6 J	A		
Mercury	Hg	0.2	0.2 U	V	0.2 U	V	0.2 U	V	0.2 U	V	0.2 U	V	0.2 U	V	0.2 U	V	0.2 U	V	0.2 U	V	0.2 U	V		
Molybdenum	Mo	200	100 U	V	100 U	V	100 U	V	100 U	V	100 U	V	100 U	V	100 U	V	100 U	V	100 U	V	100 U	V		
Nickel	Ni	40	7.0 U	V	7.0 U	V	7.0 U	V	7.0 U	V	9.2	V	14.6	V	7.0 U	V	7.0 U	V	8.7	V	7.0	V		
Potassium	K	5000	9000 W	A	9450 W	A	4270 W	A	3910 W	A	111000	V	124000	V	3340 W	A	4120 W	A	124000	V	128000	V		
Selenium	Se	5	2.5 J	A	2.0 U	V	2.7 J	A	2.0 U	V	6.0 J	A	7.0 J	A	2.0 U	V	2.0 U	V	4.0 U	V	6.0 J	A		
Silver	Ag	10	3.0 W	A	3.0 W	A	3.0 W	A	3.0 W	A	3.0 U	R	3.0 U	R	3.0 W	A	3.0 W	A	3.0 U	R	3.0 U	R		
Sodium	Na	5000	186000	V	199000	V	52000	V	54200	V	743000	V	1620000	V	47100	V	41900	V	821000	V	789000	V		
Strontium	Sr	200	526 J	A	541 J	A	537 J	A	531 J	A	2780 J	A	2940 J	A	323 J	A	304 J	A	2840 J	A	2860 J	A		
Thallium	Tl	10	4.0 U	R	4.0 U	R	4.0 U	R	4.0 U	R	4.0 U	R	40.0 U	R	4.0 U	R	4.0 U	R	4.0 U	R	40.0 U	R		
Tin	Sn	200	100	V	100 U	V	100 U	V	100 U	V	129 J	A	132 J	A	100 U	V	100 U	V	130 J	A	135 J	A		
Vanadium	V	50	5.0 U	V	5.0 U	V	5.0 U	V	5.0 U	V	5.0 U	V	5.0 U	V	5.0 U	V	8.5	V	5.0 U	V	5.0 U	V		
Zinc	Zn	20	22.9 J	A	18.2 J	A	23.8 J	A	15.4 J	A	86.9 J	A	59.3 J	A	28.5 U	A	123	V	83.6 J	A	56.5 J	A		
Cyanide		10	10.0 U	V	N/R		10.0 U	V	N/R		10.0 U	V	N/R		10.0 U	V	N/R		10.0 U	V	N/R			

E Estimated by the Laboratory

U Indicates the compound was not detected above the Instrument Quantitation Limit

J Quantitation is approximate due to limitations identified during the quality control review

DL Detection Limit in Micrograms per Liter (ug/L)

N/R Not reported

DQ Data Qualifier

V Valid

A Acceptable with qualifications

R Rejected

ANALYSIS DATES

for

BATCH NO. 8911L395

SAMPLE ID	ICP Analysis Date	* See below Analysis Date	As AA Analysis Date	Pb AA Analysis Date	Se AA Analysis Date	Tl AA Analysis Date	Hg CVAA Analysis Date	CN Analysis Date	Cs Analysis Date
SW098008	12/04/89		12/02/89	12/01/89	12/03/89	12/04/89	11/28/89	11/14/89	01/10/90
SW092008	12/04/89		12/02/89	12/01/89	12/03/89	12/04/89	11/28/89	11/14/89	01/10/90
SW094008	12/04/89		12/02/89	12/01/89	12/03/89	12/04/89	11/28/89	11/14/89	01/10/90
SW093008	12/04/89		12/02/89	12/01/89	12/03/89	12/04/89	11/28/89	11/14/89	01/10/90
SW095008	12/04/89		12/02/89	12/01/89	12/03/89	12/04/89	11/28/89	11/14/89	01/10/90

* The following ICP elements were run on an alternate date:

L395A/eg15j

~~Stockton~~ Wentzville

pm pcg green yellow voas metals w/lab

LOK110289001

Custody Transfer Record/Lab Work Request

WESTON

Not Rad

WESTON Analytics Use Only
8911L395

Client: Rockwell (rocky Flats)

Work Order: 2029 33 04

Date Rec'd.: 11/6/89   Date Due: 12/18/89

RFW Contact: [illegible]   Janell Bergman

Client Contact/Phone: (303) 980 6800

Refrigerator#			1	4	4	4	CP
#/Type Container			3/glass	1/plast	1/plast	1/plast	
Volume			40 ml	1-L	1-L	1-L	
Preservative			None	NaOH	HNO3	HNO3	
ANALYSES REQUESTED			1	4	5	6	

WA Use Only Lab ID	Client ID/Description	Matrix	Date Collected	1 (OBDWN)	4 (CN)	5 (Metals)	6 (Metals)
1	TB110289008						
2	SW098008	W	11-02-89	X			
3	SW092008	W		X	X	[illegible]	X
4	SW094008	W		X	X	[illegible]	X
5	SW093008	W		X	X	[illegible]	X
6	SW095008	W		X	X	[illegible]	X
7	SW098008	W		X	X	[illegible]	X
8	SW092008	W				✓	
9	SW094008	W				✓	
10	SW093008	W				✓	
11	SW095008	W				✓	
		W				✓	

Full CLP 45DAY TAT

Matrix:
S - Soil, SE - Sediment, SO - Solid, W - Water, O - Oil, A - Air, WI - Wipe, DS - Drum Solids, DL - Drum Liquids, F - Fish, L - EP/TCLP Leachate, X - Other

Special Instructions: 1 = voa 2 = bna 3 = pest/pcb 4 = cyanide
5 = filtered tcl metals Mo. Sr. Cs. Li. [illegible]
6 = unfiltered tcl metals Mo. Sr. Cs. Li. [illegible]

Item/Reason	Relinquished by	Received by	Date	Time	Item/Reason	Relinquished by	Received by	Date	Time
All	[illegible]	[illegible]	11/3/89	1330	Hg return	J. Jeffrey Welch	[illegible]	11/27/89	1945
All	R. Drenten	[illegible]	11/3/89	1700	Metals	[illegible]	[illegible]	12-1	9—
CP	[illegible]	K. [illegible]	11/4/89	9:30	Metals	[illegible]	[illegible]	12-1	4—
[illegible]	[illegible]	[illegible]	11/4	[illegible]					
Hg	[illegible]	J. Jeffrey Welch	11/27/89	0915					

WESTON Analytics Use Only
Samples Were: 1 Shipped or Hand-Delivered NOTES:
2 Ambient or Chilled NOTES:
3 Received Broken/Leaking (Improperly Sealed) Y N NOTES:
4 Properly Preserved Y N NOTES:
5 Received Within Holding Times Y N NOTES:
COC Tape Was: 1 Present on Outer Package Y N 2 Unbroken on Outer Package Y N 3 Present on Sample Y N 4 Unbroken on Sample Y N NOTES: 11/6/89 CP
COC Record Was: 1 Present Upon Receipt of Samples Y N
Discrepancies Between Sample Labels and COC Record? Y N NOTES:

RFW 21-21-001/A-12/88

SW094008 less than 300 pCi/L / all others [illegible]
SW095008 [illegible]

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